Variable Expression of WASP in B Cell Lines of Wiskott-Aldrich Syndrome Patients
Eileen Remold-O'Donnell, Jessica Cooley, Anna Shcherbina, Tracy L. Hagemann, Sau-Ping Kwan, Dianne M. Kenney, and Fred S. Rosen

A Single Amino Acid in the p58 Killer Cell Inhibitory Receptor Controls the Ability of Natural Killer Cells to Discriminate Between the Two Groups of HLA-C Allotypes
Christine C. Winter and Eric O. Long

Disruption of T Cell Tolerance by Directing a Self Antigen to Macrophage-Specific Scavenger Receptors
Roshini Abraham, Arpita Choudhury, Sandip K. Basu, Vineeta Bal, and Satyajit Rath

Engagement of the Signaling Lymphocytic Activation Molecule (SLAM) on Activated T Cells Results in IL-2-Independent, Cyclosporin A-Sensitive T Cell Proliferation and IFN-γ Production
Gregorio Aversa, Chia-Chun J. Chang, José M. Carballido, Benjamin G. Cocks, and Jan E. de Vries

Involvement of IL-10 in the Autonomous Growth of EBV-Transformed B Cell Lines
P. Robert Beatty, Sheri M. Krams, and Olivia M. Martinez

Different Developmental Arrest Points in RAG-2 −/− and SCID Thymocytes on Two Genetic Backgrounds: Developmental Choices and Cell Death Mechanisms before TCR Gene Rearrangement
Rochelle A. Diamond, Susan B. Ward, Kyoko Owada-Makabe, Hua Wang, and Ellen V. Rothenberg

Peptide Antagonists Inhibit Proliferation and the Production of IL-4 and/or IFN-γ in T Helper 1, T Helper 2, and T Helper 0 Clones Bearing the Same TCR
Bonnie N. Dittel, Derek B. Sant'Angelo, and Charles A. Janeway, Jr.
Synergistic Induction of CTLA-4 Expression by Costimulation with TCR Plus CD28 Signals Mediated by Increased Transcription and Messenger Ribonucleic Acid Stability
Patrick W. Finn, Houzhen He, Yungsheng Wang, Zemin Wang, Gumin Guan, James Listman, and David L. Perkins

CD28 Dependence of T Cell Differentiation to IL-4 Production Varies with the Particular Type 2 Immune Response
William C. Gause, Shen Jue Chen, Rebecca J. Greenwald, Mark J. Halvorson, Pin Lu, Xia di Zhou, Suzanne C. Morris, Kelvin P. Lee, Carl H. June, Fred D. Finkelman, Joseph F. Urban, and Ryo Abe

Effects of Blocking B7-1 and B7-2 Interactions During a Type 2 In Vivo Immune Response
Rebecca J. Greenwald, Pin Lu, Mark J. Halvorson, Xia-di Zhou, Shen-jue Chen, Kathleen B. Madden, Peter J. Perrin, Suzanne C. Morris, Fred D. Finkelman, Robert Peach, Peter S. Linsley, Joseph F. Urban, Jr., and William C. Gause

Shc Mediates IL-6 Signaling by Interacting with gp130 and Jak2 Kinase
Vincenzo Giordano, Giulia De Falco, Rita Chiari, Ileana Quinto, Pier Giuseppe Pelicci, Linda Bartholomew, Paola Delmastro, Massimo Gadina, and Giuseppe Scala

Lck Is Necessary and Sufficient for Fas-Ligand Expression and Apoptotic Cell Death in Mature Cycling T Cells

Differential Regulation of T Cell Activation for Primary Versus Secondary Proliferative Responses
Manisha Gupta, Ebenezer Satyaraj, Jeannine M. Durdik, Satyajit Rath, and Vineeta Bal

Fas Ligand Is Positioned in Mouse Uterus and Placenta to Prevent Trafficking of Activated Leukocytes Between the Mother and the Conceptus
Joan S. Hunt, Dianne Vassmer, Thomas A. Ferguson, and Lance Miller

Differential CC Chemokine-Induced Enhancement of T Helper Cell Cytokine Production
William J. Karpus, Nicholas W. Lukacs, Kevin J. Kennedy, Wendy S. Smith, Stephen D. Hurst, and Terrence A. Barrett

An Ovalbumin-IL-12 Fusion Protein Is More Effective than Ovalbumin Plus Free Recombinant IL-12 in Inducing a T Helper Cell Type 1-Dominated Immune Response and Inhibiting Antigen-Specific IgE Production
Tae Sung Kim, Rosemarie H. DeKruyff, Randall Rupper, Holden T. Maecker, Shoshana Levy, and Dale T. Umetsu

Immunogenicity and Immunopathogenicity of an Autoimmune Epitope Are Potentiated by Increasing MHC Binding Through Residue Substitution
Alexander T. Kozhich, Rachel R. Caspi, Jay A. Berzofsky, and Igal Gery

CD8Tc1 and Tc2 Cells Secrete Distinct Cytokine Patterns In Vitro and In Vivo but Induce Similar Inflammatory Reactions
Li Li, Subash Sad, David Kügi, and Tim R. Mosmann
Role of CD3γ and CD3δ Cytoplasmic Domains in Cytolytic T Lymphocyte Functions and TCR/CD3 Down-Modulation
Frédéric Luton, Michel Buferne, Valérie Legendre, Eric Chauvet, Claude Boyer, and Anne-Marie Schmitt-Verhulst

Antigen-Specific B Cells Preferentially Induce CD4+ T Cells to Produce IL-4
Anne E. Macaulay, Rosemarie H. DeKruifff, Christopher C. Goodnow, and Dale T. Umetsu

Regulation of Human T Lymphocyte Coactivation with an α4 Integrin Antagonist Peptide
Bradley W. McIntyre, Darren G. Woodside, Denise A. Caruso, David K. Wooten, Scott I. Simon, Sriram Neelamegham, Joanna K. Revelle, and Peter Vanderslice

Differential Effects of Flk-2/Flt-3 Ligand and Stem Cell Factor on Murine Thymic Progenitor Cells
Thomas A. Moore and Albert Zlotnik

Presence of B Cell Progenitors in the Thymus

Differential Expression of the β2-Adrenergic Receptor by Th1 and Th2 Clones: Implications for Cytokine Production and B Cell Help
Virginia M. Sanders, Raymond A. Baker, D. Susanne Ramer-Quinn, Deborah J. Kasprowicz, Bruce A. Fuchs, and Nancy E. Street

Distribution of Ly-6C on Lymphocyte Subsets: I. Influence of Allotype on T Lymphocyte Expression
Annette J. Schlueter, Thomas R. Malek, Colette N. Hostetler, Peter A. Smith, Peter deVries, and Thomas J. Waldschmidt

Developmentally Ordered V-J Recombination in Mouse T Cell Receptor γ Locus Is Not Perturbed by Targeted Deletion of the Vγ4 Gene
Shinji Sunaga, Kazushige Maki, Yoshinori Komagata, Jun-ichi Miyazaki, and Koichi Ikuta

Bone Marrow-Derived Dendritic Cells Can Process Bacteria for MHC-I and MHC-II Presentation to T Cells
Mattias Svensson, Brigitta Stockinger, and Mary Jo Wick

Induction of IL-4-Producing CD4+ T Cells by Antigenic Peptides Altered for TCR Binding
Xiang Tao, Catriona Grant, Stephanie Constant, and Kim Bottomly

MOLECULAR AND STRUCTURAL IMMUNOLOGY

Functional Characterization of the Interaction Between the Superantigen Staphylococcal Enterotoxin A and the TCR
Per Antonsson, Anette Gjörloff Wingren, Johan Hansson, Terje Kalland, Mikael Varga, and Mikael Dohlsten

Two-Hybrid Cloning of a Gene Encoding TNF Receptor-Associated Protein 2, a Protein That Interacts with the Intracellular Domain of the Type 1 TNF Receptor: Identity with Subunit 2 of the 26S Protease
James D. Dunbar, Ho Yeong Song, Danqun Guo, Li-Wha Wu, and David B. Donner
IFN Regulatory Factor-1 Plays a Central Role in the Regulation of the Expression of Class I and II MHC Genes In Vivo
Michael Hobart, Vido Ramassar, Nelson Goes, Joan Urmson, and Philip F. Halloran

A CD8 Genomic Fragment That Directs Subset-Specific Expression of CD8 in Transgenic Mice
Arnd Hostert, Mauro Tolaini, Richard Festenstein, Louise McNeill, Bernard Malissen, Owen Williams, Rose Zamoyska, and Dimitris Kioussis

Vh Repertoire Maturation During B Cell Development In Vitro: Differential Selection of Ig Heavy Chains by Fetal and Adult B Cell Progenitors
Aaron J. Marshall, Christopher J. Paige, and Gillian E. Wu

Restricted V Gene Repertoire in the Secondary Response to Insulin in Young BALB/c Mice
O. Yu Tikhomirov and James W. Thomas

HOST DEFENSE

Efficient Priming of CD8+ Memory T Cells Specific for a Subdominant Epitope Following Sendai Virus Infection
Geoffrey A. Cole, Twala L. Hogg, Michael A. Coppola, and David L. Woodland

Identification of a Natural T Cell Epitope Presented by Salmonella-Infected Macrophages and Recognized by T Cells from Orally Immunized Mice
Brad T. Cookson and Michael J. Bevan

Programmed Cell Death of Mycobacterium avium Serovar 4-Infected Human Macrophages Prevents the Mycobacteria from Spreading and Induces Mycobacterial Growth Inhibition by Freshly Added, Uninfected Macrophages
Candida Fratazzi, Robert D. Arbeit, Claudio Carini, and Heinz G. Remold

B Cell-Independent Selection of Memory T Cells After Mucosal Immunization with Candida albicans
Jessica Jones-Carson, F. Andrés Vazquez-Torres, and Edward Balish

Surfactant Protein A-Deficient Mice Are Susceptible to Group B Streptococcal Infection
Ann Marie LeVine, Michael D. Bruno, Karen M. Huelsman, Gary F. Ross, Jeffrey A. Whitsett, and Thomas R. Korfhagen

Heat Shock Protein 72 on Tumor Cells: A Recognition Structure for Natural Killer Cells
Gabriele Multhoff, Claus Botzler, Luise Jennen, Jörg Schmidt, Joachim Ellwart, and Rolf Issels

Potent Anti-Feline Immunodeficiency Virus and Anti-Human Immunodeficiency Virus Effect of IFN-τ
Carol H. Pontzer, Janet K. Yamamoto, Fuller W. Bazer, Troy L. Ott, and Howard M. Johnson

Promiscuity of Clinical Plasmodium falciparum Isolates for Multiple Adhesion Molecules Under Flow Conditions
Rachanee Udomsangpetch, Paul H. Reinhardt, Tineke Schollaardt, John F. Elliott, Paul Kubes, and May Ho
INFLAMMATION

4365  L-Selectin Shedding Does Not Regulate Human Neutrophil Attachment, Rolling, or Transmigration Across Human Vascular Endothelium In Vitro
Jennifer R. Allport, Han T. Ding, Ann Ager, Douglas A. Steeber, Thomas F. Tedder, and Francis W. Luscinskas

4373  Glucocorticoids Inhibit the Cytokine-Induced Proliferation of Mast Cells, the High Affinity IgE Receptor-Mediated Expression of TNF-α, and the IL-10-Induced Expression of Chymases
Kari K. Eklund, Donald E. Humphries, Zhinan Xia, Namit Ghildyal, Daniel S. Friend, Vera Gross, and Richard L. Stevens

4381  In Vivo Production and Function of IL-12 p40 Homodimers
Frederick P. Heinzel, Andrea M. Hujer, Farah N. Ahmed, and Ronald M. Rerko

4389  Human Glomerular Mesangial Cell Phagocytosis of Apoptotic Neutrophils: Mediation by a Novel CD36-Independent Vitronectin Receptor/Thrombospondin Recognition Mechanism That Is Uncoupled from Chemokine Secretion
Jeremy Hughes, Yuqing Liu, Jo Van Damme and John Savill

4398  Differential Recruitment of Leukocyte Populations and Alteration of Airway Hyperreactivity by C-C Family Chemokines in Allergic Airway Inflammation
Nicholas W. Lukacs, Robert M. Strieter, Kelly Warmington, Pam Lincoln, Stephen W. Chensue, and Steven L. Kunkel

4405  Activation of Ras and Mitogen-Activated Protein Kinase Pathway by Terminal Complement Complexes is G Protein Dependent
Florin Niculescu, Horea Rus, Tim van Biesen, and Moon L. Shin

4413  Expression and Regulation of the Neural Cell Adhesion Molecule L1 on Human Cells of Myelomonocytic and Lymphoid Origin
James D. Pancook, Ralph A. Reisfeld, Nissi Varki, Antonella Vitiello, Robert I. Fox, and Anthony M. P. Montgomery

4422  CD14-Dependent and CD14-Independent Signaling Pathways in Murine Macrophages from Normal and CD14 Knockout Mice Stimulated with Lipopolysaccharide or Taxol
Pin-Yu Perera, Stefanie N. Vogel, Gregory R. Detore, Alain Haziot, and Sanna M. Goyert

4430  The Lipid A Moiety of Porphyromonas gingivalis Lipopolysaccharide Specifically Mediates the Activation of C3H/HeJ Mice
Ken-ichi Tanamoto, Satoko Azumi, Yuji Haishima, Hidefumi Kumada, and Toshio Umemoto

4437  Macrophage Triggering with Cecropin A and Melittin-Derived Peptides Induces Type II Nitric Oxide Synthase Expression
Marta Velasco, María J. M. Díaz-Guerra, Pilar Díaz-Achirica, David Andreu, Luis Rivas, and Lisardo Bosca

4444  Properdin, a Positive Regulator of Complement Activation, Is Released from Secondary Granules of Stimulated Peripheral Blood Neutrophils
Urs Wirthmüller, Beatrice Dewald, Marcus Thelen, Martin K.-H. Schäfer, Cordula Stover, Keith Whaley, Jonathan North, Paul Eggleton, Kenneth B. M. Reid, and Wilhelm J. Schwaeble
Effects of Sleep and Circadian Rhythm on Human Circulating Immune Cells
Jan Born, Tanja Lange, Kirsten Hansen, Matthias Mölle, and Horst-Lorenz Fehm

A Metabolite of the Lupus-Inducing Drug Procainamide Prevents Anergy Induction in T Cell Clones
Anke Kretz-Rommel and Robert L. Rubin

HIV-1 env DNA Vaccine Administered to Rhesus Monkeys Elicits MHC Class II-Restricted CD4+ T Helper Cells That Secrete IFN-γ and TNF-α
Christine Lekutis, John W. Shiver, Margaret A. Liu, and Norman L. Letvin

Transgene-Induced Production of IL-4 Alters the Development and Collagen Expression of T Helper Cell 1-type Pulmonary Granulomas
Nicholas W. Lukacs, Christina L. Addison, Jack Gauldie, Frank Graham, Ken Simpson, Robert M. Strieter, Kelly Warmington, Stephen W. Chensue, and Steven L. Kunkel

C-C Chemokines, IL-16, and Soluble Antiviral Factor Activity Are Increased in Cloned T Cells from Subjects with Long-Term Nonprogressive HIV Infection
Enrico Scala, Gianpiero D'Offizi, Rosamaria Rosso, Ombretta Turriziani, Rosetta Ferrara, Anna Maria Mazzone, Guido Antonelli, Fernando Aiuti, and Roberto Paganelli

Expanded CD4+ and CD8+ T Cell Clones in Elderly Humans
Risé Schwab, Paul Szabo, John S. Manavalan, Marc E. Weksler, David N. Posnett, Christophe Pannetier, Philippe Kourilsky, and Jos Even

Molecular Properties of Anti-DNA Induced in Preautoimmune NZB/W Mice by Immunization with Bacterial DNA
Mary Kopke Wloch, Audrey L. Alexander, Anne M. M. Pippen, David S. Pisetsky, and Gary S. Gilkeson

A Noncytolytic IL-10/Fc Fusion Protein Prevents Diabetes, Blocks Autoimmunity, and Promotes Suppressor Phenomena in NOD Mice
Xin Xiao Zheng, Alan W. Steele, Wayne W. Hancock, A. Christopher Stevens, Peter W. Nickerson, Prabir Roy-Chaudhury, Yan Tian, and Terry B. Strom

Author Index